BANGALORE METROPOLITAN TRANSPORT CORPORATION

Central Offices:: Shanthinagar:: Bangalore

Proceedings of the Pre-Bid meeting held on 09.06.2023 regarding procurement of 20 Mini (Chikka) Buses agains tender number Tender No :BMTC/2023-24/IND 0004 dtd.26.05.2023

Present:	Committee Members
Sl. No.	Officers
1	Chief Mechanical Engineer, BMTC
2	Chief Mechanical Engineer, KKRTC
3	Dy. Chief Mechanical Engineer, KSRTC
4	Accounts Officer, KSRTC

Companies	
Sl No	Companies
1	Sri. T.Kesavan, M.C. Mobility
2	Sri. Arun, M.C. Mobility
Virtually attended	
3	Sri. Naveen, M/s. PMI
4	Sri. Gopal Krishna, M/s. JBM
5	Sri. Vijay, M/s. Olectra
6	Sri. Pratheek, M/s. Olectra
7	Sri. Anjan, M/s. Pinnacle

The Chief Mechanical Engineer, BMTC welcomed the committee members and also the representatives of OEMS and informed that the Tender No:BMTC/2023-24/IND 0004 dtd.26.05.2023 floated for procurement of 20 Nos. Mini (chikka) electric buses required for BMTC. The tenderers were informed that detailed specifications of Chassis and bus body along with documents related to tender terms and conditions are available in the e-procurement portal.

The queries submitted by the firms and the decision of BMTC are as under:

Sl No	Section No.	Page No.	Para No./ Clause No.	Description as per Tender	Amendment Requested/ Justification by the company	Decision of BMTC
M/S. OLECTRA PVT LTD.,						
1	TECHNICAL SPECIFICATION	40	**13.1**	Bus dimensions (mm)-Overall length (excluding bumper):- 6 m to 7m	Bus dimensions (mm)-Overall length (excluding bumper):- ~~6 m to 7m~~ **< 8m**	Bus dimensions (mm)-Overall length (excluding bumper):- 6 m to 8m
2	TECHNICAL SPECIFICATION	40	**12**	Operating Range:The EV manufacturers must provide vehicles which can run 150 km in single charge (at 80 % SOC) for <7m non-AC Buses in actual conditions for the relevant GVW for the first five years of operation	Operating Range:The EV manufacturers must provide vehicles which can run ~~150~~ **160** km in single charge (at 80 % SOC) ~~<7m non-AC Buses~~ **for <8m non-AC Buses** in actual conditions for the relevant GVW for the first five years of operation	Operating Range:The EV manufacturers must provide vehicles which can run 150 km in single charge (at 80 % SOC) for <8m non-AC Buses in actual conditions for the relevant GVW for the first five years of operation

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Sl No	Section No.	Page No.	Para No./ Clause No.	Description as per Tender	Amendment Requested/ Justification by the company	Decision of BMTC
3	AWARD OF CONTRACT	12	12	25. Prequalification Commercial bids of the tenderers who fulfill the Prequalification criteria will only be opened.	25. Prequalification Commercial bids of the tenderers who fulfill the Prequalification criteria **and Trail Operation as mentioned below** will only be opened. **Trial Operation:** **As per practice and Government directions trial run of new type of fully built buses is required to be conducted. The trial run will be conducted as below:** **a) 01 No. out of 20 Nos. will be put on trial run for a period of 10 days from the date of induction of buses.** **b) The performance of the trial run will be jointly evaluated by the Technical Committee and the representative of OEM/Bidder.** **c) Commercial bids will be opened only after evaluation of the trial run. If the performance of the vehicles is not satisfactory the bidder will be technicallly disqualified.**	Adhere to tender condition
4	QUALIFICATION CRITERIA	46	2	Should have manufactured 25 Electric or 50 HSD/CNG buses in the last three financial years including current financial year.	Should have manufactured ~~25~~ 100 Electric ~~or 50 HSD/CNG buses~~ in the last three financial years including current financial year.	Adhere to tender condition
5	QUALIFICATION CRITERIA	46			***New clause to be added*** **OEM should have experience in manufacturing and delivery of Mini (<8m) Electric buses to any STU or Private organisations in India**	Adhere to tender condition
6	TECHNICAL SPECIFICATION	40	12	Should have completed testing and certification requirement under Central Motor Vehicle Rules 1989 (CMVR) of at least one (1) Mini/ Midi/ Standard electric bus (100% battery operated) from the designated testing center in India. i.e., CMVR type approval of at least one model of electric bus.	Should have completed testing and certification requirement under Central Motor Vehicle Rules 1989 (CMVR) of ~~at least one (1)~~ Mini~~/ Midi/ Standard~~ electric bus (100% battery operated) from the designated testing center in India. i.e., CMVR type approval of at least one model of electric bus.	Adhere to tender condition
7	EMD	38		Earnest money deposit amount is Rs. 15,00,000/- (Rs. Fifteen lakhs only)following e-payment modes to e-procurement portal. a) Credit Card b) Direct debit c) National Electronic Fund Transfer (NEFT) d) Over the Counter (OTC) (Axis Bank)	Earnest money deposit amount is ~~Rs. 15,00,000/- (Rs. Fifteen lakhs only)~~ **Rs.10,00,000/- (i.e.Rs.50,000/- per bus)** following e-payment modes to e-procurement portal. a) Credit Card b) Direct debit c) National Electronic Fund Transfer (NEFT) d) Over the Counter (OTC) (Axis Bank)	Adhere to tender condition
8	C. Preparation of Tenders - Tender Prices	RFP-7	9.1	Tenderer shall also quote AMC rates of the bus and chargers i.e. 08 years.	Tenderer shall also quote AMC rates of the bus and chargers i.e. ~~08 years.~~ **10 Years**.	Tenderer shall also quote AMC rates of the bus and chargers during the warranty period i.e.02 yrs and post warranty period i.e. for 08 yrs
9	Performance Security	17	6.1	Within 21 days of receipt of the notification of contract award, the Supplier shall furnish Performance Security in the form of Bank Guarantee issued by any Nationalized/Commercial Scheduled Banks to the Purchaser for an amount of 3% of the Contract Value	Within ~~21~~ **30** Days of receipt of the notification of contract award, the Supplier shall furnish Performance Security in the form of Bank Guarantee issued by any Nationalized/Commercial Scheduled Banks to the Purchaser for an amount ~~of 3% of the Contract Value~~ **equivalent to INR 25,000/- (Indian Rupee Twenty Five Thousand Only) per bus**	Within 30 days of receipt of the notification of contract award, the Supplier shall furnish Performance Security in the form of Bank Guarantee issued by any Nationalized/Commercial Scheduled Banks to the Purchaser for an amount of 3% of the Contract Value

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10	Performance Security	17	6.3	The Performance Security will be discharged by the Purchaser and returned to the Supplier not later than 90 days following the date of completion of the Supplier's performance obligations, including any Warranty obligations, under the Contract	The Performance Security will be discharged by the Purchaser and returned to the Supplier not later than ~~90~~ **60** days following the date of completion of the Supplier's performance obligations, including any Warranty obligations, under the Contract	Adhere to tender condition
11	Insurance	18	10.1	The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. For delivery of goods at site, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War risks and Strikes.	The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. For delivery of goods at site, the insurance shall be obtained by the Supplier. ~~in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War risks and Strikes.~~	Adhere to tender condition
12	Liquidated Damages:	21	22.1	Performance, up to a maximum deduction of 10% of the Contract Price	Performance, up to a maximum deduction of ~~10%~~ 3% of the Contract Price	Adhere to tender condition
13	Warranty	25	-	The tenders are invited for manufacturing supply and maintenance of 20 Nos. Fully Built Mini Electric Non-AC Buses with 5 chargers as per CMVR. The bidder shall offer the warranty for a period of 2 years for the bus and chargers, and warranty for a period of 5 years or 5 lakh kilometers whichever is later, for the bus battery (for propulsion).	The tenders are invited for manufacturing supply and maintenance of 20 Nos. Fully Built Mini Electric Non-AC Buses with 5 chargers as per CMVR. The bidder shall offer the warranty for a period of 2 years for the bus and chargers, and warranty for a period of **5 3** years or **5 3** lakh kilometers whichever is later, for the bus battery (for propulsion).	Adhere to tender condition
14	Inspection and Tests (GCC Clause 7)	25	2.1	The inspection of buses shall be carried out against the tender specifications in the following stages: Stage1: The chassis shall be offered for inspection before taking up for the Construction of bus body. Stage 2: The structure shall be offered for inspection before taking up for paneling work. Stage 3: The vehicle shall be offered for inspection after completion of paneling before final finishing. Stage 4: The completed bus shall be offered for pre-delivery inspection. Stage 5: The final inspection shall be done at BMTC Central Workshops-I, BMTC, Shanthinagar, Bangalore. Chargers: The inspection of chargers shall be carried out by BMTC technical officers.	The inspection of buses shall be carried out against the tender specifications in the following stages: ~~Stage1: The chassis shall be offered for inspection before taking up for the Construction of bus body.~~ Stage ~~2~~ **1**: The structure shall be offered for inspection before taking up for paneling work. Stage ~~3~~ **2**: The vehicle shall be offered for inspection after completion of paneling before final finishing. Stage ~~4~~ **3**: The completed bus shall be offered for pre-delivery inspection. ~~Stage 5: The final inspection shall be done at BMTC Central Workshops-I, BMTC, Shanthinagar, Bangalore.~~ Chargers: The inspection of chargers shall be carried out by BMTC technical officers.	Adhere to tender condition
15	Incidental Services (GCC Clause 12)	26	4.1	The supplier has to provide diagnostic Tech Tool/Laptop/Tab including connector cords, plug etc., along with updated software. Software shall be with life time up gradation support to identify and trouble shoots the defects/maintenance related issues. The said tools shall be supplied before completion of delivery of the supply of last bus out of the ordered quantity failing which the last bus will not be accepted by purchaser.	The supplier has to **provide arrange** diagnostic Tech Tool/Laptop/Tab including connector cords, plug etc., ~~along with updated software.~~ **whenever there is a requirement for diagnosis.** Software shall be with life time up gradation support to identify and trouble shoots the defects/maintenance related issues. The said tools shall be supplied before completion of delivery of the supply of last bus out of the ordered quantity failing which the last bus will not be accepted by purchaser.	Adhere to tender condition

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Sl No	Section No.	Page No.	Para No./ Clause No.	Description as per Tender	Amendment Requested/ Justification by the company	Decision of BMTC
16	Delay in the rectification of defects in the supplied goods:	27	6	Delay in the rectification of defects in the supplied goods:Within 7 working days for major repairs from the date of intimation through email. Major repairs refer to all components related to the Batteries, Battery Management System, Cooling Systems (Bus Batteries, Motors), Traction and other Motors, Drive Controller and Regenerative Braking, Electronics & High Voltage Electrical Systems, Chargers, On-Board Diagnostics & Communications, excluding preventive and routine maintenance of Suspension, wheel maintenance systems, aggregates, assemblies, sub-assemblies of the fully built buses.	Delay in the rectification of defects in the supplied goods:Within ~~7~~ **10** working days for major repairs from the date of intimation through email. Major repairs refer to all components related to the Batteries, Battery Management System, Cooling Systems (Bus Batteries, Motors), Traction and other Motors, Drive Controller and Regenerative Braking, Electronics & High Voltage Electrical Systems, Chargers, On-Board Diagnostics & Communications, excluding preventive and routine maintenance of Suspension, wheel maintenance systems, aggregates, assemblies, sub-assemblies of the fully built buses.	Adhere to tender condition
17	19. Procurement of battery	32	19	BMTC will procure the battery pack (for vehicle propulsion) from the successful bidder if required after warranty period, that is after 5 Years or 5 Lakh kilometers (whichever is later).	BMTC will procure the battery pack (for vehicle propulsion) from the successful bidder if required after warranty period, that is after ~~5~~ **3** Years or ~~5~~ **3** Lakh kilometers (whichever is later).	Adhere to tender condition
18	Agreement and security Deposit for AMC:	32	20.2	Performance security for AMC: The security deposit is calculated for 2% of the total value of the AMC charges	Performance security for AMC: The security deposit is calculated for ~~2~~ **1%** of the total value of the AMC charges	Adhere to tender condition
19	Scope of the bidder	33	24	The bidder shall offer the warranty for a period of 2 years for bus and chargers, warranty for a period of 5 years or 5 lakh kilometers whichever is later for battery, and also the bidder shall be willing to enter Annual Maintenance Contract (AMC) for the period	The bidder shall offer the warranty for a period of 2 years for bus and chargers, warranty for a period of ~~5~~ **3** years or ~~5~~ **3** lakh kilometers whichever is later, for the bus battery ., and also the bidder shall be willing to enter Annual Maintenance Contract (AMC) for the period	Adhere to tender condition
20	TECHNICAL SPECIFICATION	39	3	Charging time: 1hour.	Charging time: ~~1~~ **1.5** ~~hour~~.	Charging time: 1.5 hour.
21	TECHNICAL SPECIFICATION	39	3	Power (kW) Motor/s capacity: No of Motors/ batteries as per the Bus Manufacturer's design.	Power (kW) Motor/s capacity: **Motor Capacity: 180 kW (Minimum)** ***(New clause to be added)***	As per manufacturer's desgin
22	TECHNICAL SPECIFICATION	39	3.2	Battery life:-Batteries to last for 5 years or 5 lakh kilometers whichever is later and the battery testing certificate consisting of ISO or SAE certificate, self life of device, Operating temperature, storage temperature, design validation and process validation results etc.	Batteries to last for 5 years or 5 lakh kilometers or 4000 charging cycles whichever is later earlier and the battery testing certificate consisting ~~of ISO or SAE certificate as per CMVR,~~ self life of device, Operating temperature, storage temperature, design validation and process validation results etc.	Adhere to tender condition
23	TECHNICAL SPECIFICATION	39	3.5	3.5 D. Minimum Operation Range per bus per day for the first 5 years: Min. Operation Range per bus per day: 150 km in single charge (On actual condition with GVW)	3.5 D. Minimum Operation Range per bus per day for the first 5 years: Min. Operation Range per bus per day: ~~150~~ 160 km @80% SOC in single charge (On actual condition with GVW)	Adhere to tender condition
24	TECHNICAL SPECIFICATION	70	7.1 & 7.2	7 Suspension system 7.1 Front : Air suspension or as per Bus manufacturer's design. 7.2 Rear : Air suspension or as per Bus manufacturer's design	7 Suspension system 7.1 Front : Air suspension or as per Bus manufacturer's design. 7.2 Rear : Air suspension or as per Bus manufacturer's design	Adhere to tender condition
25	TECHNICAL SPECIFICATION	45	18.6	18.6 Stanchions: Stainless steel tubing 32 mm. dia.	18.6 Stanchions: Stainless steel **/ MS** tubing 32 mm. dia.	As per manufacturer's desgin

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26	TECHNICAL SPECIFICATION	40	18.12	Towing device front/rear Heavy duty 1.2 times (minimum) the kerb weight of the bus with 30 of the longitudinal axis of the bus. As per CMVR & IS 9760 - ring type Towing device front required	Towing device front/rear Heavy duty 1.2 times (minimum) the kerb weight of the bus with 30 of the longitudinal axis of the bus. As per CMVR & IS 9760 - ring / pin type Towing device front required	As per manufacturer's desgin
				MC MOBILITY		
27				Opening Range: The EV manufacturers must provide vehicles which can run 150 km in single charge (at 80% SOC) for <7m non-AC Buses in actual conditions for the relevant GVW for the first five years of operation.	Kindly request you to consider range in a single charge as per AIS 040/CMVR.	Opening Range: The EV manufacturers must provide vehicles which can run 150 km in single charge (at 80% SOC) for <8m non-AC Buses in actual conditions for the relevant GVW for the first five years of operation.
28				Should have manufactured 25 Electric or 50 HSD/ CNG buses in the last three financial years including current financial year.	Should have manufactured 25 electric or 50 HSD/ CNG buses in the last three financial years including current financial year or in case of EV start-up company the bidder should have tie-up with technology partner for manufacturing of electric buses.	Adhere to tender condition
29				Should have completed testing and certification requirement under Central Motor Vehicle Rules 1989 (CMVR) of at least one (1) Mini/Midi/ Standard electric bus (100% battery operated) from the designated testing center in India i.e., CMVR type approval of at least one model of electric bus.	Should have completed testing and certification requirement under Central Motor Vehicle Rules 1989 (CMVR) of at least one (1) Mini/Midi/ Standard electric bus (100% battery operated) from the designated testing center in India i.e, CMVR type approval of atleast one model of electric bus or the bidder should submit the type approval certificate at the time of during supply of prototype bus.	Adhere to tender condition
30				The last date of submission of tender is 26.06.2023.	The last date of submission of tender to be extended till 26.07 .2023	The last date of submission of tender to be extended till 11.07.2023
				M/s.JBM		
31		39		The battery shall have capacity to operate daily operation of 150 kms with 150 kms operating range in single charge at 80% SOC for the first five years.	Propose 100 km on single charge and 150 km daily running with 45 min opportunity charging	Adhere to tender condition
32		39		Safety: Short circuit /over temperature/lightening protection mandatory	Requesting authority to share Lightening protection	As per the testing procedure done by the testing agencies recognized by CMVR.
33		39	D	Min. Operation Range per bus per day: 150 km in single charge (On actual condition with GVW)	We propose min 100 km in single charge	Adhere to tender condition
34		40	12	The EV manufacturers must provide vehicles which can run 150 km in single charge (at 80 % SOC) for <7m non-AC Buses in actual conditions for the relevant GVW for the first five years of operation	Propose 100 km on single charge (at 80% SOC)	The EV manufacturers must provide vehicles which can run 150 km in single charge (at 80 % SOC) for <8m non-AC Buses in actual conditions for the relevant GVW for the first five years of operation
35		43	L	Customizable (Minimum15 + driver)	Min 13 nos + Driver will be ensured, requesting authority to allow. Clarity required on Customizable requirement	Adhere to tender condition
				For Bus: The Payment will be made within 30 working days from the date of receipt and acceptance of fully built buses at BMTC, Central Workshops-I, Bangalore or submission of invoice or claim by the supplier whichever is later.		

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Sl No	Section No.	Page No.	Para No./ Clause No.	Description as per Tender	Amendment Requested/ Justification by the company	Decision of BMTC
36		27/32	Payment Terms	For AMC Charger: 22.1 The bidder should submit bills on actual basis of the succeeding month. The bills will be verified every month and the amount actually payable to the bidder after all adjustments including penalty shall be intimated to the successful bidder. The final settlement of the accounts will be carried out in every three months within one month of completing quarter period. If any amount is found due to the Corporation, then it shall be adjusted against AMC charges payable or from the Security Deposit / Bank Guarantee. 22.2 The payment of AMC will be made on a Monthly basis after satisfactory completion of said period by 15th of the month by the Tender Inviting Authority.Tax Deduction at Source (TDS)/CGST/SGST will be deducted at source from the payment due to the bidder as per applicable law. The successful bidder shall not claim any interest on payments under the contract. Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other taxes as applicable will be made from the bills payable to the Successful bidder at rates as notified from time to time.	For Bus: We request the Payment terms as below for Bus: 1.40% amount within 7 days from the LOA and 2.Balance 60% to be released within 30 working days from the date of receipt and acceptance of fully built buses at BMTC, Central Workshops-I, Bangalore or submission of invoice or claim by the supplier whichever is later. For AMC Charger: We request to raise the invoicing on Fortnightly basis and payment terms as below: 1.90% amount within 7 days from the Invoice data and 2.Balance 10% to be released by after 14 days from Invoice submission date	Adhere to tender condition
37		38	BID Security/EMD	Earnest money deposit amount is Rs. 15,00,000/- (Rs. Fifteen lakhs only) shall be paid online through any of the following e-payment modes to e-procurement portal. a) Credit Card b) Direct debit c) National Electronic Fund Transfer (NEFT) d) Over the Counter (OTC) (Axis Bank)	Earnest money deposit amount is Rs.50000 per bus i.e. Rs10,00,000/- (Rs. Ten lakhs only) shall be paid online through Bank Guarantee.	Adhere to tender condition
38		36	Operational Penalty	The maximum Penalty is capped @ 3% of AMC Charge per month.	We request the maximum Penalty is capped @ 2% of AMC Charge per month.	Adhere to tender condition
39		37	13	BMTC will allow the bidder to use available workshop facilities of the concerned depots only for the purpose of maintenance/ repair work of the BMTC's buses. The bidder shall ensure the use of these workshop facilities properly and maintenance/ repair of the same will be the responsibility of the bidder	Request authority to provide following worksop facility's along with parking space / plots adjacent to depots / part of the plots inside depots. Roof covered inspection bay for accidental body work and washing bays/platform & Pits, Spare rooms,Tyre Room for Tyre storage, repairing, admin, IT, toilets, training rooms, adequate illumination, Pneumatic Pipe line at service & washing bay/pits.	The details will be provided to the sucessful bidder.
40		36	27	BMTC shall provide existing maintenance facilities available in the Depot on` as is where is Basis' to the successful bidder to execute their maintenance works. The successful bidder will be responsible to make his own arrangement for Tools, Jigs and Fixtures required for proper maintenance and repair of buses and shall also provide sufficient staff for carrying out the AMC as per the tender terms and conditions		
41		36	27	BMTC will allow the bidder to use available workshop facilities of the concerned depots only for the purpose of maintenance/ repair work of the BMTC's buses. The bidder shall ensure the use of these workshop facilities properly and maintenance/ repair of the same will be the responsibility of the bidder		
42		30	16.1	The whole vehicle including the chargers should have warranty for 2 years, the battery pack (for vehicle propulsion) should have a warranty of 5 years or 5 lakh kilometers whichever is later. The warranty shall cover battery pack for propulsion, electrical system, traction motor, all kinds of driveline system components including all kinds of consumables for the components covered under AMC, required to run the bus	Warranty policy is proprietary of the OEM.AMC can be used apart from warranty wherever is required	Adhere to tender condition

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43		33	23	The bidder shall not sub-let the Contract to any other firm/ entity. However, execution of Contract through its authorized network/ service providers will be permitted subject to the conditions that the bidder shall be solely and fully responsible for the AMC of the buses during the Contract period	Kindly clarify whether part procurement will come under subcontraction.Kindly allow for part procurement as it may hinder participation considering most of the OEMs will be getting some parts from outside	Adhere to tender condition
44		35	26	The manufacturer shall provide training to minimum 10 Drivers and 10 Mechanics and 1 Mechanical Supervisor and officers per bus on driving, vehicle maintenance and electrical and electronics (OBD and multiplexing), reconditioning of aggregate free of cost including in house training	We may request Authority that that training may be provided by service provider as per OEM Training Policy/Norms Therefore, may request Authority to delete the clause All the necessary trainings as applicable may be conducted by the ServiceProvider.In case any other training need to be conducted by Authority the cost of same shall be bear by Authority.	Adhere to tender condition
45		31	17.1.1	The successful bidder's technical team shall visit each operating depots for conducting preventive maintenance and repair / overhauling during the warranty and AMC period. The successful bidder shall attend all break down/repair calls as and when informed by the Tender Inviting Authority	It is observe from the said Cluase 17.1.1 that 20 buses will be operate in multiple depots, request to authority kindly confirm how many depots consider to operate all 20 buses fleet .	The details will be provided to the sucessful bidder.
46		39	3	Battery pack rating and energy / power available for propulsion; Any deterioration in propulsion power with usage and consequently reducing charge; Min & max charging % Maximum Thirty Minutes Power (kW) Motor/s capacity · It should be sufficient to provide requirements of Power, acceleration, maximum speed, and rated performance as per UBS II. · The battery shall have capacity to operate daily operation of 150 kms with 150 kms operating range in single charge at 80% SOC for the first five years. · No of Motors/ batteries as per the Bus Manufacturer's design. · Electrical Regeneration required. · Charging mode: DC charging required · Charging time: 1hour. · Battery power consumption less than 0.8 kwh per kilometer. · Safety: Short circuit /over temperature/lightening protection mandatory · Safety requirement for Electric buses shall meet as per AIS 038 (CMVR) · CMVR certification mandatory at the time of proto type inspection · It should be waterproof as per applicable standard code.	We request authority to confirm the Charging Window (Hrs) available	The details will be provided to the sucessful bidder.

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